

PRIORITY**SECRET**

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SECRET 281956Z CITE [] 2346

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PRIORITY []

SUBJECT: EVALUATION OF NICE GIRL MISSION NX7522.

1. CAMERA TYPE 1 (115A), UNIT H, WAS USED ON NICE GIRL MISSION NX7522.

2. EXPOSURE: EXCEPT FOR THE FIRST 300 FRAMES (APPROXIMATE) THE EXPOSURE IS ADEQUATE. THE FIRST 300 FRAMES HAVE HEAVY DENSITY WHICH IS PROBABLY CAUSED BY THE EXCESSIVE SNOW COVER THAT WAS PHOTOGRAPHED.

3. DATA RECORDING: THE DATA CHAMBER OPERATED PROPERLY AND WAS SHARPLY IMAGED THROUGHOUT THE MISSION. EVERY OTHER PAIR OF DATA BLOCKS PROTUDES SLIGHTLY INTO THE AFT CAMERA FORMAT AND CAUSES MINOR IMAGE OBSCURATION. THE 200 CPS TIMING TRACK IS WELL DEFINED AND DOES NOT TRACK OFF THE FILM, EXCEPT DURING CAMERA START-UP AND SHUT-DOWN.

4. CORRELATION: A GOOD CORRELATION WAS ACHIEVED BETWEEN THE INS TAPE AND THE FILM. THE CLOCK HELD A PLUS TEN SECOND BIAS IN TIME AND THE LATITUDE AND LONGITUDE CORRELATED THROUGHOUT. A COMPARISON BETWEEN NOMOGRAPH READINGS FROM THE FILM AND INS RECORDED DATA SHOWS THAT THE INS READINGS HOLD A MINUS 1.3 MILLIRADIANS PER SECOND BIAS THROUGHOUT THE MISSION. (NOTE CHART)

5. METERING: THERE IS NO FORMAT OVERLAPPING OTHER THAN THAT NORMALLY ASSOCIATED WITH CAMERA START-UP AND SHUT-DOWN. SOME VARIATION IN FORMAT LENGTH IS NOTED. EVERY OTHER AFT CAMERA FORMAT (TITLED N) IS APPROXIMATELY 28 INCHES LONG, AND ITS PRECEDING FRAME (TITLED N MINUS 3) IS APPROXIMATELY 27.9 INCHES LONG. THE OTHER TWO FRAMES, (N MINUS 1) AND (N MINUS 2), ARE APPROXIMATELY DESIGN LENGTH (27.67 INCHES). IT IS ALSO NOTED THAT IN ALL CASES, THE DATA BLOCK PROTUDES INTO THE LONGER AFT FORMAT (NOTE ITEM 3).

6. SMEAR: IMAGE SMEAR, ALIGNED ALONG THE MAJOR AXIS OF THE FILM, IS PRESENT IN ALL AFT FRAMES. IT APPEARS MOST SEVERE NEAR THE BEGINNING OF SCAN; HOWEVER, IT IS PRESENT VARYING DEGREES THROUGHOUT THE FORMAT. NO SMEAR WAS NOTED IN THE FORWARD RECORD

| | |
|----------------|-------------|
| Distribution 2 | |
| Cy No. | Office 2541 |
| File | CS 22 |
| 3 | |
| 4 | |
| TDS | |
| CSD | |
| IPD | |
| PD | |
| PSD | |
| PSD-ICB | |
| TID | |
| IAD | |
| PAQ | |
| DIAXX-4 | |
| SPAD | |
| NSA-LO | |
| DIA-AP | |

Advance copy
utilized

8. MISCELLANEOUS: THERE IS A CAMERA-OFF AFTER FRAME 860. THERE ARE HEAT SPLICES AFTER FRAMES 213, 859 AND 1379. A MANUFACTURES SPLICE IS PRESENT IN FRAME 1142. CLOUDS OBSCURE APPROXIMATELY 65 PERCENT OF THE FIRST LEG OF THE MISSION AND 35 PERCENT OF THE SECOND

| ROLL | FRAME | PERCENT CLOUDS AT V/H INDICATOR ZERO SCAN ON FILM | V/H ON INSTAPE IN INCHES | A & B OVERLAP IN INCHES | PERCENT ERROR IN FILM VELOCITY |
|------|-------|---|-----------------------------|-------------------------------|--------------------------------------|
| 1 | 61 | 0 ON | .0377 | 3.13 | -1.4 |
| | 63 | 0 ON | .0377 | | |
| 2 | 89 | 0 OFF | .0389 | 3.19 | &.48 |
| | 91 | 0 OFF | .0390 | | |

NGA review(s) completed.

SECRETGROUP 1
Excluded from automatic
downgrading and
declassification

-2-

| | | | | | | |
|----|------|----|--------------------------------------|-------|------|-------|
| 3 | 163 | 0 | OFF | .0391 | 3.17 | 0 |
| | 165 | 0 | OFF | .0394 | | |
| 4 | 231 | 5 | OFF | .0374 | 3.31 | &4.45 |
| | 233 | 10 | OFF | .0373 | | |
| 5 | | | CLOUDS PRECLUDE READING | | | |
| 6 | | | CLOUDS PRECLUDE READING | | | |
| 7 | 463 | 25 | ON | .0380 | 3.2 | &0.79 |
| | 465 | 25 | ON | .0380 | | |
| 8 | 539 | 75 | ON | .0380 | 3.04 | -4.09 |
| | 541 | 75 | ON | .0380 | | |
| 9 | 617 | 50 | ON | .0380 | 3.02 | -4.65 |
| | 619 | 50 | ON | .0380 | | |
| 10 | 689 | 60 | ON | .0380 | 3.20 | &0.79 |
| | 691 | 60 | ON | .0380 | | |
| 11 | | | CLOUDS PRECLUDE READING | | | |
| 12 | | | CLOUDS AND ATTITUDE PRECLUDE READING | | | |
| 13 | 939 | 0 | ON | .0380 | 3.21 | &1.09 |
| | 941 | 0 | ON | .0380 | | |
| 14 | | | CLOUDS PRECLUDE READING | | | |
| 15 | | | CLOUDS PRECLUDE READING | | | |
| 16 | 1159 | | CLOUDS PRECLUDE READING | | | |
| | 1161 | | | | | |
| 17 | 1225 | 0 | ON | .0381 | 3.28 | &3.42 |
| | 1227 | 0 | ON | .0381 | | |
| 18 | 1317 | 0 | OFF | .0372 | 3.25 | &2.42 |
| | 1319 | 0 | OFF | .0372 | | |
| 19 | 1377 | 20 | OFF | .0383 | 3.30 | &4.10 |
| | 1379 | 20 | OFF | .0382 | | |
| 20 | 1447 | 0 | OFF | .0366 | 3.29 | &3.75 |
| | 1449 | 0 | OFF | .0365 | | |
| 21 | 1523 | 0 | OFF | .0383 | 3.23 | &1.77 |
| | 1525 | 0 | OFF | .0383 | | |
| 22 | 1599 | 0 | OFF | .0383 | 3.23 | &1.77 |
| | 1601 | 0 | OFF | .0383 | | |
| 23 | 1677 | 0 | OFF | .0399 | 3.26 | &2.75 |
| | 1679 | 0 | OFF | .0399 | | |
| 24 | 1753 | 0 | OFF | .0399 | 3.22 | &1.26 |
| | 1755 | 0 | OFF | .0399 | | |

COMPARISON OF V/H INDICATED BY FILM VELOCITY
VERSUS V/H RECORDED ON INS TAPE

| FRAME | V/F AND V/H | | INS TAPE | PERCENT CLOUD COVER | SIX OF SIX V/H LIGHT IN DATA BLOCK |
|-------|-----------------------|-------|----------|---------------------------|--|
| | FROM NOMOGRAPH V/F | V/H | | | |
| 61 | 12.55 | .0391 | .0377 | 0 | ON |
| 89 | 12.97 | .0404 | .0389 | 0 | OFF |
| 163 | 13.00 | .0405 | .0391 | 0 | OFF |
| 231 | 12.43 | .0387 | .0374 | 5 | OFF |
| 315 | 12.59 | .0392 | .0380 | 95 | ON |
| 401 | 12.59 | .0392 | .0380 | 95 | ON |
| 463 | 12.59 | .0392 | .0380 | 25 | ON |
| 539 | 12.59 | .0392 | .0380 | 75 | ON |
| 617 | 12.63 | .0393 | .0380 | 50 | ON |
| 689 | 12.63 | .0393 | .0380 | 60 | ON |
| 767 | 12.63 | .0393 | .0380 | 100 | ON |
| 839 | 12.65 | .0394 | .0380 | 100 | ON |
| 939 | 12.65 | .0394 | .0380 | 0 | ON |
| 991 | 12.65 | .0394 | .0382 | 100 | ON |

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| | | | | | |
|------|-------|-------|-------|-----|-----|
| 1067 | 12.65 | .0394 | .0381 | 100 | ON |
| 1159 | 12.65 | .0394 | .0381 | 100 | ON |
| 1225 | 12.65 | .0394 | .0381 | 0 | ON |
| 1377 | 12.72 | .0396 | .0383 | 20 | OFF |
| 1447 | 11.37 | .0354 | .0366 | 0 | OFF |
| 1523 | 12.30 | .0383 | .0383 | 0 | OFF |
| 1599 | 12.69 | .0395 | .0383 | 0 | OFF |
| 1677 | 13.29 | .0414 | .0399 | 0 | OFF |
| 1753 | 13.17 | .0410 | .0399 | 0 | OFF |

9. IT IS INTENDED THAT THIS EVALUATION BE INCLUDED AS AN
APPENDIX TO THE NICE GIRL COMPARISON REPORT WHICH WILL BE PRESENTED
TO THE JRC ON 1 DEC. YOUR COMMENTS ON THIS EVALUATION WILL BE
APPRECIATED.
S E C R E T

END OF MESSAGE